

CLAIMS

1. A method for fixation of optical fiber in an optical device module connecting a case incorporating optical element, and the optical fiber installed from the outside of said case into said optical element, which comprises using a fixation pipe, into which said optical fiber is inserted, and which can fix said optical fiber by a solder in the intermediate part of inserting direction, the external surface of which has a groove for copper bit; setting said fixation pipe to said case in order that said intermediate part may be located on the outside of said case; placing said optical fiber inside said fixation pipe in order that the strip part, where the coated part of said optical fiber is removed, may be located in said intermediate part, at least, and the coated part of said optical fiber may be located somewhere in the opposite side of said case from said intermediate part; and contacting a copper bit with said groove for copper bit and fixing said optical fiber to the fixation pipe by a solder.

2. A method for fixation of optical fiber in an optical device module as claimed in claim 1, which comprises that a planing for alignment of solder is formed on the internal surface of said intermediate part of the fixation pipe and, in fixing said optical fiber to the fixation pipe by a solder, said solder is located on said planing.

3. A method for fixation of optical fiber in an optical device module as claimed in claim 1 or 2, which comprises that, in fixing said optical fiber to the fixation pipe by a solder, the opposite side of said case from said intermediate part is refrigerated.

4. A method for fixation of optical fiber in an optical device module as claimed in claim 3, which comprises that said method of refrigerating is performed by contacting endothermic member to said fixation pipe.
5. A method for fixation of optical fiber in an optical device module as claimed in claim 4, which comprises that said endothermic member has the structure for clipping said fixation pipe.
6. A method for fixation of optical fiber in an optical device module as claimed in claim 3, which comprises that said method of refrigerating is performed by blowing compressed air to said fixation pipe.
7. A method for fixation of optical fiber in an optical device module as claimed in claims 1 to 6, which comprises that solder fusion is performed by electrifying the fixation pipe with said copper bit.
8. A fixation pipe for fixing an optical fiber in an optical device module connecting a case incorporating an optical element, and the optical fiber installed from the outside of said case into said optical element, which comprises that the planing for alignment of the solder that is formed on the internal surface of said fixation pipe, and the groove for copper bit that is formed on the external surface of said fixation pipe, are located outside said case in setting said fixation pipe to the case.
9. A fixation pipe as claimed in claim 8, which comprises an opening formed adjacent to said planing.